

ISSN 1673-9655

CN 53-1205/X

环境科学导刊

ENVIRONMENTAL SCIENCE SURVEY

# 环境科学导刊

2021年6月  
第3期  
第40卷  
**03**  
**VOL.40**

二〇二一年六月

第四十卷

第三期

ISSN 1673-9655



9 771673 965217

0.6>

云南省生态环境科学研究院 主办

万方数据

**环境科学导刊 (双月刊)**  
**HUANJING KEXUE DAOKAN**

第 40 卷 第 3 期 总第 201 期

2021 年 6 月 25 日出版

**目 次**

· 水环境保护 ·

- 抚仙湖流域农业面源污染防治策略研究 ..... 段典榕, 孔燕, 罗玉, 张晓旭 (1)  
南盘江 (华宁段) 水质现状及防治探析 ..... 赵玉娟 (4)  
滇中引水输水干渠与充蓄水库水温影响研究 ..... 汪青辽, 陈媛媛 (7)  
氮磷营养盐控制与湖泊蓝藻水华治理研究进展 ..... 赵华, 张先智, 肖娴 (12)  
南沙区蕉门水道总磷污染现状分析及防治措施建议 ..... 陈可, 李泰儒, 钟转有, 吴泽立 (16)

· 环境管理 ·

- 我国环保按日连续处罚制度使用现状及规范化运用研究 ..... 董克钻, 肖建峰, 周世渺, 郑小丽, 刘长 (20)  
新时代背景下云南省生态环境信息中心的作用及定位 ..... 朱云燕, 李媛, 孔雁波, 段坤, 陆桂梅, 胡雁, 何宗良, 朱翔 (24)

· 污染防治 ·

- 云南某典型喀斯特区域农田土壤镉、砷污染特征及来源 ..... 吴见珣, 杨赵, 杨涛明, 和丽萍, 杨牧青, 和淑娟 (28)  
铜冶炼尾矿废弃地土壤种子库特征研究 ..... 张熙, 龙荣, 韩郸, 王雪梅, 胡金朝 (34)  
南通市区大气气溶胶物理特性分析 ..... 李敏娜, 钱震, 蒋荣, 陈帅 (38)  
牡蛎壳粉对水体中镉离子吸附特性的研究 ..... 方华, 王永明, 晋文慧, 陈绪龙, 林红烨, 陈伟珠, 洪专 (43)

- 禄劝彝族苗族自治县农村生活污水治理规划的思考与建议 ..... 张鹤潇 (48)

· 污染防治技术 ·

- IFAS 工艺处理实验室废水应用研究 ..... 马森林, 杨惠兰, 杜世章, 陈杨武, 刘健, 谭周亮 (52)  
含铝废液处理工程改造案例 ..... 杨敏, 丁家骥 (58)  
混凝沉淀 - 微电解 - Fenton 组合工艺预处理香精香料废水 ..... 胡晓勇, 蒋尊芳, 宋乐山 (62)

· 环境评价 ·

- 基于因子分析法的空气质量综合评价研究 ..... 周玉香, 徐爱兰, 蒋荣 (65)  
元阳梯田区大鱼塘小流域水质分析与模糊综合评价——以元阳梯田区大鱼塘小流域为例 ..... 刘诗雨 (70)  
云南某特色产业园区周边土壤中多环芳烃的源分析与健康风险评价 ..... 吴艳林, 张文字, 李丽珍, 施晓东, 何奇杭 (75)

- 基于生态文明管理下云南省典型生态区生态监测与评估指标体系的构建 ..... 肖俞, 吴学灿, 段禾祥 (83)

· 环境监测 ·

- 能量色散 X 射线荧光光谱分析仪测定环境空气中无机元素 ..... 梅红兵, 黄田, 彭剑平, 同琨, 刘鹏, 王剑敏 (88)  
环境热释光累积剂量测量实验研究 ..... 杨文栋, 武荣国 (92)

- 《环境科学导刊》稿件采用及发行数字期刊的声明 ..... (11)  
《环境科学导刊》征稿简则 ..... (15)

期刊基本参数: CN53 - 1205/X \* 1982 \* b \* A4 \* 96 \* zh \* P \* ¥ 15.0 \* 1000 \* 21 \* 2021 - 06

# ENVIRONMENTAL SCIENCE SURVEY

(Bimonthly) Vol. 40 No. 3 2021

## Contents

Countermeasures Study of Controlling Agricultural Non – point Source Pollution in the Fuxianhu Lake Watershed .....	DUAN Dianrong etc. (1)
Analysis on the Present Situation of the Water Quality of Nanpan River (Huanning Section) and its Prevention and Control .....	ZHAO Yujuan (4)
Study on the Effects of Water Temperature on the Main Canal and the Reservoirs of the Dianzhong Water Diversion Project .....	WANG Qingliao etc. (7)
Progress on Treatment of Cyanobacterial Bloom and Nutrient Control .....	ZHAO Hua etc. (12)
Analysis of Total Phosphorus Pollution Status and Countermeasures of Jiaomen Water Canal in Nansha District .....	CHEN Ke etc. (16)
Study on the Application Status and Standardized Complementation of the Daily Penalty Consummate in China .....	DONG Kezuan etc. (20)
The Function and Orientation of Yunnan Ecological and Environmental Information Center in the New Era .....	ZHU Yunyan etc. (24)
Pollution Characteristics and Source Analysis of Cadmium and Arsenic in Farmland Soils of a Typical Karst Region in Yunnan .....	WU Jianxun etc. (28)
Character of the Soil Seed Bank in Copper Tailing .....	ZHANG Xi etc. (34)
Physical Characteristics of Atmospheric Aerosol in the Downtown Area of Nantong .....	Li Minna etc. (38)
Study on the Adsorptive Capability of Oyster Shell Powder to Cadmium Ions in Water .....	FANG Hua etc. (43)
Thoughts and Suggestions on Rural Domestic Sewage Treatment Planning in Luquan Yi and Miao Autonomous County .....	ZHANG Hexiao (48)
Application of IFAS Process to Treat Laboratory Wastewater .....	MA Senlin etc. (52)
Reconstruction Project of Aluminum Wastewater Treatment System .....	YANG Min etc. (58)
Pretreatment of Perfume Waste – water by Coagulation Sedimentation – micro – electrolysis – Fenton Process .....	HU Xiaoyong etc. (62)
Comprehensive Evaluation of Air Quality based on Factor Analysis .....	ZHOU Yuxiang etc. (65)
Fuzzy Comprehensive Evaluation of Water Quality of the Dayutang River Watershed in Yuanyang Terrace Area .....	LIU Shiyu (70)
Source Analysis and Risk Assessment of Polycyclic Aromatic Hydrocarbons (PAHs) in the Surrounding Soil of One Special Industrial Park of Yunnan .....	WU Yanlin etc. (75)
The Index System of Ecological Monitoring and Assessment for Typical Ecological Region in Yunnan Province in View of Ecological Civilization Management .....	XIAO Yu etc. (83)
Determination of Inorganic Elements in the Air by Energy Dispersive X – ray Fluorescence Spectrometer .....	MEI Hongbing etc. (88)
Experimental Research of Environmental Thermoluminescence (TL) Cumulative Dose Measurement .....	YANG Wendong etc. (92)